A Numerical Study of Fractured Reservoirs’ Productivity Behavior through Coupled Hydromechanical Model
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

A three-dimensional coupled thermo-hydro-mechanical model for deformable fractured geothermal systems
Publication: Research - peer-review › Journal article – Annual report year: 2018

Austenite reversion in low-carbon martensitic stainless steels – a CALPHAD-assisted review
Niessen, F. 2018 In : Materials Science and Technology. 14 p.
Publication: Research - peer-review › Journal article – Annual report year: 2018

A Water Treatment Case Study for Quantifying Model Performance with Multilevel Flow Modeling
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Publication: Research - peer-review › Journal article – Annual report year: 2018

Carbon capture innovation challenge
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Dynamic plantwide modeling, uncertainty and sensitivity analysis of a pharmaceutical upstream synthesis: Ibuprofen case study
Publication: Research - peer-review › Journal article – Annual report year: 2018

Heat Recovery from Multiple-Fracture Enhanced Geothermal Systems: The Effect of Thermoelastic Fracture Interactions
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Publication: Research - peer-review › Journal article – Annual report year: 2018

Investigation on the Productivity Behaviour in Deformable Heterogeneous Fractured Reservoirs
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Publication: Research - peer-review › Paper – Annual report year: 2018

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Scenario Based Approach for Load Identification
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Seismic geomorphology and origin of diagenetic geobodies in the Upper Cretaceous Chalk of the North Sea Basin (Danish Central Graben)
Publication: Research - peer-review › Journal article – Annual report year: 2018

Synergy potential for oil and geothermal energy exploitation
Publication: Research - peer-review › Journal article – Annual report year: 2018

Thermoporoelastic effects during heat extraction from low-permeability reservoirs
Publication: Research - peer-review › Journal article – Annual report year: 2018

METHOD OF MANUFACTURING A COMPOSITE STRUCTURE INCLUDING A TEXTILE FABRIC ASSEMBLY
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Publication: Research › Patent – Annual report year: 2017

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An integrated workflow for stress and flow modelling using outcrop-derived discrete fracture networks
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Applying LCA in decision making- the need and the future perspective
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Experimental investigation of interfacial crack arrest in sandwich beams subjected to fatigue loading using a novel crack arresting device

Experimental study of strain prediction on wave induced structures using modal decomposition and quasi static Ritz vectors

Finite element simulations of interactions between multiple hydraulic fractures in a poroelastic rock

Geomechanics and geology: introduction

Including product features in process redesign
Kinetics analysis of two-stage austenitization in supermartensitic stainless steel
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Kinetics modeling of delta-ferrite formation and retainment during casting of supermartensitic stainless steel
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Modal participation in multiple input Ibrahim time domain identification
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Publication: Research - peer-review › Conference article – Annual report year: 2017

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Quantification of oil recovery efficiency, CO 2 storage potential, and fluid-rock interactions by CWI in heterogeneous sandstone oil reservoirs
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Reliability analysis of offshore structures using OMA based fatigue stresses
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Resilience of systems by value of information and SHM
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Structural Monitoring for Offshore Structures: A challenge needs to be undertaken
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Temperature Effects on Stiffness Moduli of Reservoir Sandstone from the Deep North Sea
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Publication: Research - peer-review › Paper – Annual report year: 2017

The impact of reduction of doublet well spacing on the Net Present Value and the life time of fluvial Hot Sedimentary Aquifer doublets
Publication: Research - peer-review › Journal article – Annual report year: 2017

Thermodynamic Analysis of Chalk–Brine–Oil Interactions
Publication: Research - peer-review › Journal article – Annual report year: 2017

Three-Dimensional poroelastic effects during hydraulic fracturing in permeable rocks
Publication: Research - peer-review › Journal article – Annual report year: 2017

Towards the understanding of microbial metabolism in relation to microbial enhanced oil recovery
Publication: Research - peer-review › Journal article – Annual report year: 2016

A general procedure for estimating dynamic displacements using strain measurements and operational modal analysis
Skafte, A., Aenlle, M. L. & Brincker, R. 2016 In : Smart Materials and Structures. 25, 2, 8 p., 025020
Publication: Research - peer-review › Journal article – Annual report year: 2016

A geometrically based method for predicting stress-induced fracture aperture and flow in discrete fracture networks
Publication: Research - peer-review › Journal article – Annual report year: 2016

Application of infrared thermography for temperature distributions in fluid-saturated porous media
Publication: Research - peer-review › Journal article – Annual report year: 2016

Damping characteristics of a footbridge: Mysteries and truths
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Fracture Toughness Characterization of Honeycomb Core Sandwich Composites in Mode - I: A Comparative Study
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017
In Situ Techniques for the Investigation of the Kinetics of Austenitization of Supermartensitic Stainless Steel
Publication: Research - peer-review › Journal article – Annual report year: 2016

Microbial enhanced oil recovery—a modeling study of the potential of spore-forming bacteria
Publication: Research - peer-review › Journal article – Annual report year: 2015

Orbital calibration of the late Campanian carbon isotope event in the North Sea
Publication: Research - peer-review › Journal article – Annual report year: 2016

The impact of different aperture distribution models and critical stress criteria on equivalent permeability in fractured rocks
Publication: Research - peer-review › Journal article – Annual report year: 2016

The impact of in-situ stress and outcrop-based fracture geometry on hydraulic aperture and upscaled permeability in fractured reservoirs
Bisdom, K., Bertotti, G. & Nick, H. 2016 In : Tectonophysics. 69, Part A, p. 63-75
Publication: Research - peer-review › Journal article – Annual report year: 2016

The influence of facies heterogeneity on the doublet performance in low-enthalpy geothermal sedimentary reservoirs
Publication: Research - peer-review › Journal article – Annual report year: 2016

Projects:

Big data at DHRTC
Jørgensen, T. M. & Schmidt, K. G. 
15/09/2017 → 31/12/2017
Project

Numerical modelling of near wellbore flow
Kadeethum, T., Nick, H. & Salimzadeh, S.
01/07/2017 → 30/06/2020
Project: PhD

Risk Based Asset Management of subsurface wells against corrosion and scale
Miraglia, S.
01/03/2017 → …
Project

Novel Productivity Enhancement Concept for a Sustainable Utilization of a Geothermal Resource
Nick, H.
01/03/2016 → 31/08/2019
Project

Operations and Maintenance Technology, CTR1
Jørgensen, T. M.
15/02/2016 → 01/01/2020
Project
3D imaging center
01/01/2016 → 01/01/2021

Project

Activities:

Pilot Demonstration of Alarm Management in Oil & Gas Operations. - Decision Support from Functional Modelling.
Jørgensen, T. M. (Guest lecturer)
14 Nov 2017 → 15 Nov 2017
Activity: Talks and presentations › Conference presentations

Applying LCA in decision making- the need and the future perspective
Dong, Y. (Speaker), Miraglia, S. (Other), Manzo, S. (Other), Georgiadis, S. (Other), Serup, H. J. D. (Other), Boriani, E. (Other), Hald, T. (Other), Thöns, S. (Other), Hauschild, M. Z. (Other)
10 May 2017
Activity: Talks and presentations › Conference presentations

Making sense of Big Data
Jørgensen, T. M. (Guest lecturer)
24 Apr 2017
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Making sense of big data for Produced Water Treatment
Jørgensen, T. M. (Invited speaker)
17 Nov 2016
Activity: Talks and presentations › Conference presentations

Fracture Toughness Characterization of Honeycomb Core Sandwich Composites in Mode - I: A Comparative Study
Saseendran, V. (Speaker), Berggreen, C. (Lecturer), Leif A. Carlsson (Lecturer)
20 Mar 2016 → 22 Mar 2016
Activity: Talks and presentations › Conference presentations

Biorefinery Öresund Conference 'Biorefining from raw material to high value products'
Cheali, P. (Speaker), Gernaey, K. V. (Speaker), Sin, G. (Speaker)
1 May 2012 → 30 Apr 2015
Activity: Talks and presentations › Conference presentations

Press clippings:

Interview with research talents
Frank Nießen
25/05/2018
1 media contribution
Press / Media

Experiments on Supermartensitic Stainless Stainless Steel in Berlin
Frank Nießen
17/10/2017
1 media contribution
Press / Media